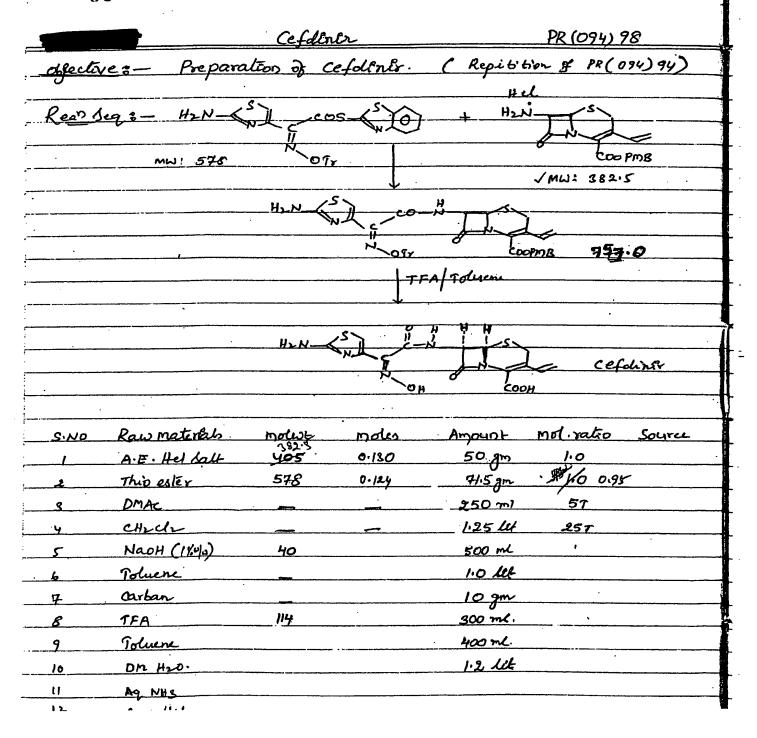
	Condensation (ind De Protection	PR: (094)	99
Objective : Pseparation à	condense ama	u ·		
Ü I	•			
Rear seg s- HIN - SI	cos S	+ 1120	S 81	CEFDII
) II			395
	` 05r		COOPINE	
<u> </u>	\$ 518	· nc	s: 405.0 3	82.5
S. No Raw materials m	notuse moleo	Amoust	mol. ratio	Source.
1 9-AE. Hel Balt	405 0.0493 382.5	20 gm	1+D	
2 DMAC	382.5	100 701	5r	comm
_3 Thio etter	578 0,0493	28.5 gm	1.0	PR/88
TEA	114	tos mi.	37	comm.
Brocedure :- DMAC was	addes al RT.			
This ester was apas &	n One Lot- al-	the same ter	·) - ·	·
the mix was stirred				
Almost clear solution			~ ~~~	
He sall- was added &				-
slimed the mix for			maintain ~	3-4) F DEA
The was showly ~				
Ren mix (cher som)			· · · · · · · · · · · · · · · · · · ·	
Icm was apply (250	•			
000 H20 (250 ml) was ad	did in one log of	- 10-15°c ·		
stims for 5 min.		•		
largers Repaired.	•		· · · · · · · · · · · · · · · · · · ·	-
Agon layer was again	o extraction with 25	sold of Dem		•
combin organic layer	ward with Dm	100 mg	(3) + 20m	of bosses some
organic buyer wasted wit	ts 1% NOOH SOI	n for 110 thr		

byes separates.
Goganic layer warn = boing sol (100 ml).
Dan was destilled its at below yell u) lacw.
To get the door coloured region.
To Hops tolune (400 mi) was added and codistiled ~ 100 ml where,
Solvene layer was cooled to 10°c.
TFA was affed over a Perfod of 30 mm 1-1p-15%.
After add Mirred to mix at 15°C - for 3:0 Hrs.
Dark coloured rean mix was costed to o'c.
Dr 420 (350 ml) was adder and Nimi for 40 5 mm.
layen, separetio
Noti: - During 14 layer separation, solis was formed.
. This He per was adjusted to 4.5 mg adding Ag Nog Sor,
New layers separation.
Agous layer was cooled to 10°c.
Cortan (2 gm) was awar and Mind for 30 min.
filtered though contract contract (Si m).
fittents (AL.) was cooled to 10-12'c.
PA was adjusted to 1.1 by using cone Hel son?.
While soly was offin.
Strong lit mix for so min at 0-5°c.
Solid upon filtered, wond & me (SO-1),
Soley was trules with 350 ml of Dm Ano of 30-32°C for 20 men,
They cooled to o- the for 30 men.
fliend the Soled, would come my mo (50 m), (5°c).
Dried the solid at staye of high vacus for 5 his
$pry \omega t = 9.0 \text{ gm}$
HPLC ASSay (OAS): 98.45 \$ (Mc: 7.59 %)
•



Procedures - DMAK was added at RT.
A.E. Het balt was added in one lot at the hame temp.
The mix was Nitred for 5 men, clear solution was formed (PH = 1.6)
To this theoester was added to one lot at the Same temp.
The mix was sterred for 10 men at 25-26%
PH comes down to 104.
Temp was raised to 45-50°c.
Matestatined for 2.0 Hrs exactly, during the matestating PH was
maintained ~ 1.75 to 2.1 by adding TEA.
Res was monttored by The and was showing the absence of spage II
The Systemi- Gtothe: Hexane
215m1: 215ml.
00 → M87
O > Stage III
Cond. (Stage IV)
<u> </u>
(Style TO CO Rm
Then the "Rn" was cooled to RT.
"Rm" was Poured Ents the mix of 1.0 let that 750 ml of Dem.
The mix was Mirred for 10 mln - 20-25°C.
layers separated.
Agous layer was extracted with 500 ml of Dem.
Den layer (combined) washed with DM 420 (500 mlx3).
Then to the Organic layer, NeoH Son (1 to, 500 ml) was a Dow over a
Perlod of 30 men.
Sterred for 1/2 Hr of 25-26°C.

The mix was Parsed to rough the hyphon bed.
layers separated (NOT- clear), DLM (500 ml) was added.
organic layer washer with 200 ml DM Hro
Then concentrated to get the herselve at 34-36° c U) Nacum.
To the Residue, toluene was added (1.0 lit).
Again distilled to tolure (200 ml), to hemove the traws of Den
Tolune layer washed with 420 (200 mlxx).
Carban (5 gm) was called to the organic (tolue) layer.
storred for 15 miss at 30-38°c.
feltered through the hyllow bed, washed with 50 ml of tolune.
Toluene was distilled of upvacen tell 600 mi de toluene was
Tremains Enside the flase of To remove the water),
-> Organic layer was Kept for overnight at RT.
Organic layer was cooled to 10°C.
TFA (300 ml) was added Over a Perfod of 10-15 mbs al- 10-15
After the add's Completed, the temp was salved to 18-19'e.
Malatalined for 3.15 Hr. Tolume (400 ml) was alles.
Then the year mix evan cooled to 0-5°c.
DM H20 (1000 ml) was Added at below 20°c. Overa festad of 5
* Temp should be 18-20'c (at the end of the His aso).
After the add Commediately layer separated.
Agous layer was kept in he + 420 mix (5-10°c).
Organic layer washed with 300 ml ok DM A20.
layer reparated.
combined organic layer was cooled to 0-5°c.

PH was adjusted to ag NHz 1507 (~425 m) at below 20'c (15-28c). At the end of the about the 5-5.5. At then PH Almost clear solution formed. containing bocomes undessolved Now and activated Corban (5.0 gm) at 15-20°c. Temp brings down to 10c. maintained for 30 min. feller the Carban, through hyrflow bed (15 gm). washed the bed with 50 mil of Dm H20. Pettocti (agous layer) was cooled to 10-15°c. Adjust the PH 1.0 by adding cone Hel solution. maintain the PH 1-1.1 for 1.0 Hr at a-5°c. filter the solly, was, suck Dry, till lost drop. take the wet cake (85 gm) and Dm H20 (950 ml). warm the mix to 30-32° c -for 30 mln. PH was adjusted to 2.97 by adding Saturated Navios Stution at 38c. Then was coded to 5°c. stirred at this temp for 30 min. -Piltered the hold, washed the cake with 100 with chilled the (5%). Diffed the sold at 30-48c U) high Vacus for 10 hm. of its the dry product = 24 gm % yfeld from Hy salt = 49% of yield from GCLE = Www Yield from Hel Salt : 0.48 W/w Yilld from GCLE = 0.86